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LPC2138 Education Board

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Embedded Artists' **LPC2138 Education Board** is the perfect board if you want to experiment with own hardware on the breadboard and get to know the NXP LPC2xxx family in general and the LPC2138 in particular.

Price Information

Volume discount available for 25 boards, or more, see Web shop

Art.no: **EA-EDU-010** [Buy](#)

Experiment Board

An Experiment expansion board is available, see Related Products tab.

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LPC2138 Education Board

Processor	NXP's ARM7TDMI LPC2138 microcontroller
Program Flash	512 KB
Data Memory	32 KB
Clock Crystals	• 14.7456 MHz crystal • 32.768 kHz RTC crystal
On-board Peripherals	• Audio interface via 3.5mm headphone and microphone connectors • UART-to-USB bridge interface on UART #0 (based on FTDI FT2232 chip) • OpenOCD compatible embedded JTAG interface (based on FTDI FT2232 chip) • Analog input (via trimmer potentiometer) • Digi/MaxStream XBee™ module interface (module not included) • RGB-LED, each color can be controlled via PWM signal • 5 LEDs (on P0.14 and P1.20-23) • 5 Pushbuttons (on P0.14 and P1.16-19) • Reset pushbutton + LED • 2 Kbit I2C-E2PROM • 50 pos expansion connector

<i>Dimensions</i>	127 x 120 mm
<i>Power</i>	On-board low-dropout voltage and reset generation • Generates +3.3V • +3.3V available for external circuits, up to 400 mA • Powered via USB connector.
<i>Connectors</i>	• mini-B USB, USB-to-serial bridge interface • JTAG (can override the embedded OpenOCD interface) • 32-pos expansion connector to breadboard experiment area • 50-pos expansion connector
<i>Other</i>	• Simple and automatic program download (ISP) via USB-serial channel. Circuit that automatically controls the bootloader from USB-serial channel • Four layer PCB (FR-4 material) for best noise immunity • Delivered with 50 pos flat cable for expansion connector • Delivered with component box and bread board cables